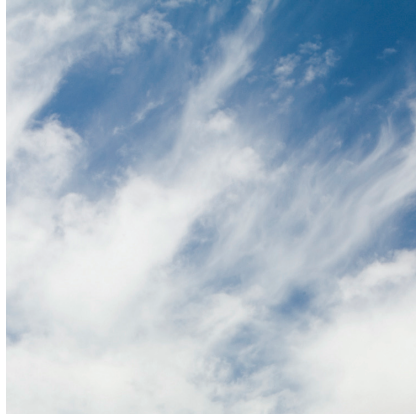


# Green Riverside

Renewable Future 2007





# Looking to the future



We are pleased to provide you with this report, which highlights our commitment to renewable power, energy and water conservation, and community education. Some of the achievements we are most proud of are a commitment to an aggressive Renewable Power Portfolio and to locally generated power from solar, photovoltaic (PV) stations located throughout the city. In addition, we have also funded over \$40 million through Public Benefit Programs, local and emerging technologies, and conservation programs that are at the forefront of sustainability.

As we look to the future of a cleaner, greener community we are mindful of the fact that we can all begin right now with small, but important first steps. Changing to efficient light bulbs, adding insulation, switching to Energy Star appliances, and watering wisely all slow the consumption of our resources, positioning Riverside for a sustainable future.

Thank you for your commitment to a Green Riverside.

Riverside Public Utilities

To find out more about our projects, or for information about rebates and incentives, visit [www.GreenRiverside.com](http://www.GreenRiverside.com)

*Wind Power makes up a growing percentage of Riverside's Renewable Energy portfolio.*





# Green Power and how it works



**SUN POWER** - Solar energy is clean, abundant and renewable. A solar, or photovoltaic, cell consists of semi-conducting material that absorbs the sunlight and converts it to electricity.



**WATER POWER** - Water released from reservoirs or lakes flows through a turbine, generating clean, non-polluting electricity.



**WIND POWER** - When available, wind power is used in large scale wind farms and is abundant, renewable, and widely distributed.



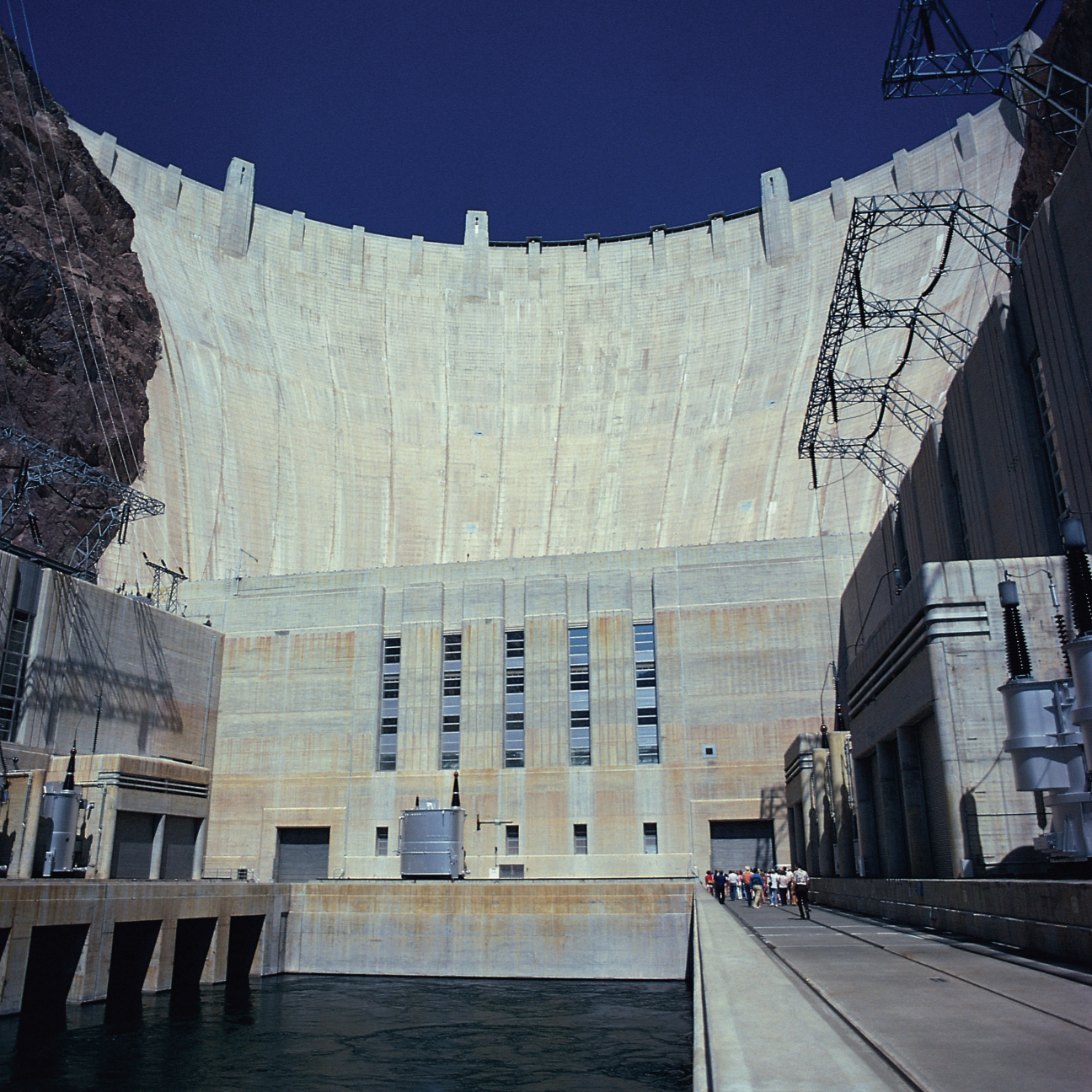
**GEOTHERMAL POWER** - Geothermal resources come from hot water found in shallow ground to bedrock several miles below the Earth's surface, which is captured and converted into electricity.



**BIO MASS POWER** - Landfill gas is created when organic waste in a landfill naturally decomposes. This gas can be captured, converted, and used as an energy source.

*Weather Based Irrigation Controllers, like ones used by the City of Riverside, allow you to adjust watering schedules with changing weather conditions.*





# Green Power by the numbers

RENEWABLE ENERGY  
& EFFICIENCY  
EXPENDITURES  
2005

\$16 Million  
13% Power Supply  
28 Megawatts

ACCELERATED  
RENEWABLE POWER  
RESOURCE PLAN  
2008

\$18 Million  
14% Power Supply  
37 Megawatts

ACCELERATED  
RENEWABLE POWER  
RESOURCE PLAN  
2010

\$31 Million  
23% Power Supply  
63 Megawatts

Power comes in all shapes and sizes. The Power Content Label was designed by the California Energy Commission and keeps customers informed of the various resources that are used to make up Riverside's electric power:

By maintaining our long-term power agreements and building new power generation resources, Riverside Public Utilities upholds its obligation to provide safe, reliable power to our customer/owners. Additionally, we remain committed to supporting and increasing renewable energy resources in our power portfolio.

## RENEWABLE ENERGY ACHIEVEMENTS & EFFICIENCY

Several local renewable generation projects have been constructed and wholesale power purchase agreements deliver over 28 Megawatts of renewable power in addition to the 21 million kWh s that are saved annually through energy efficiency programs.

2006 RIVERSIDE POWER CONTENT LABEL		
ENERGY RESOURCES	RIVERSIDE Public Utilities*	2005 CA POWER MIX**
Eligible Renewable	13%	5%
- Geothermal	9%	4%
- Small Hydroelectric	<1%	1%
- Solar	<1%	<1%
- Wind	1%	1%
Coal	65%	38%
Large Hydroelectric	3%	24%
Natural Gas	2%	33%
Nuclear	17%	0%
Other	<1%	0%
TOTAL	100%	100%
* 93% of Riverside Public Utilities System Mix is specially purchased from individual suppliers.		
** Percentages are estimated annually by the California Energy Commission based on electricity sold to California consumers during the previous year.		

Water released from reservoirs or lakes flows through turbines in dams, like Hoover Dam, generating clean, non-polluting electricity.

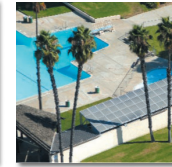


*“In the first decades of the 20th Century, Riverside was known as City Beautiful or City of Trees. Riverside in the 21st Century should be identified across Southern California as the Clean & Green City.” – Mayor Ronald O. Loveridge*





# Our Local Commitments



## Utilities Operation Center - 150kW

- Provides 40% of center's power needs
- Provides shade for 152 parking spaces

## Autumn Ridge Apartments - 81kW

- Provides power to 27 residences and all common use areas
- Built in cooperation with Riverside Housing Development Corporation

## La Sierra Metrolink Station Carport - 133kW

- Provides shade for more than 200 Metrolink commuters
- Built in cooperation with Riverside County Transportation Commission

## Oak Tree Apartments - 46kW

- Provides power to the common areas of the building
- Provides on-peak power directly to residences

## Hunt, Islander, and Shamel Park - 30kW

- 10-kilowatt system at each site
- Systems provide power to swimming pool filtration motors in each park

## Janet Goeske Senior Center Carport - 69kW

- Provides 30% of center's power needs
- Provides shade for 100 parking spaces
- Estimated \$20,000 annual power savings

## City Hall 7th Floor Patio Structure - 20kW

- Built to offset peak loads at City Hall
- Allows patio venue to be used all year long

## Orange Terrace Library

- In planning stages
- Building integrated PV system



Riverside also converts restaurant grease into methane to generate additional power at a local facility. Find out more about this innovative project by going to [www.GreenRiverside.com](http://www.GreenRiverside.com)

*A solar cell consists of semi-conducting material that absorbs the sunlight and converts it to electricity.*





# Riverside's Green Power goals



California has called on utilities to increase renewable resources in their total power mix percent by the year 2010. Riverside Public Utilities has made the commitment to meet or exceed this goal.

Riverside currently receives 5.8 MW of Green Power from landfill gas, 1.3 MW from wind, 500 kW from solar, and 20 MW from geothermal annually through Green Power agreements.

Green Power from such renewable sources as wind, solar, biomass, hydroelectric, and geothermal made up 13% of our 2006 total power mix. A Renewable Portfolio Standard (RPS) was adopted by the City of Riverside in 2003. Riverside Public Utilities will strive to attain a renewable power mix of 20% by 2010 and we are well on our way to surpassing this goal.

*Geothermal power from hot water, found below the Earth's surface, is captured and converted into electricity.*



## Sustainability:

To provide the best outcome for human and natural environments now and in the indefinite future.

## Sustainable Living



Riverside is committed to sustainable, renewable resources like sunlight and wind, and are continuing to find new ways to make the most out of our resources to ensure that supplies remain abundant. Every residential and business customer can do their part to maintain a sustainable community by taking steps today. We look forward to taking these steps together.



**TREE POWER** - Well placed trees around a structure can reduce air conditioning or cooling costs by as much as 20 percent. Since 2000, over 42,000 customers have received free shade trees through the Tree Power program. Over 30,000 of these trees have been obtained from our annual Free Tree coupon offered on the reverse side of each customer's utility bill in March.

In 2006, the City of Riverside was the only California city to receive the prestigious **Golden Tree Award** from the American Public Power Association. The award recognizes the city's overall efforts of planting at least one tree for every electric meter in town. That's over 102,000 trees so far with help from Utilities, Public Works, and Parks and Recreation.





3901 Orange Street • Riverside, CA 92501

For more information about conservation, rebates or programs, please contact us at:

[www.riversidepublicutilities.com](http://www.riversidepublicutilities.com)

**951.826.5485**

## **City of Riverside**

### **Mayor**

Ronald O. Loveridge

### **City Council Members**

Dom Betro	Ward 1
Andy Melendrez	Ward 2
Art Gage	Ward 3
Frank Schiavone	Ward 4
Ed Adkison	Ward 5
Nancy Hart	Ward 6
Steve Adams	Ward 7

### **City Manager**

Bradley J. Hudson



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